AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. **(Currently Amended)** A method for inhibiting function ~~inhibitor~~ of an effector cell, which comprises administering to a mammal an effective amount of a CCR5 antagonist.

2. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, wherein the function is cell migration, cell proliferation or cell activation.

3. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, wherein the effector cell is a CCR5-positive effector cell.

4. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, which is ~~an agent~~ useful for prevention and/or treatment of a disease caused by effector cell function.

5. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, which is ~~an agent~~ useful for prevention and/or treatment of a T cell-mediated disease.

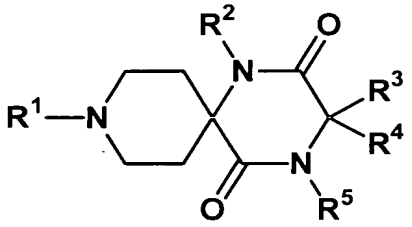
6. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, which is ~~an agent~~ useful for prevention and/or treatment of a myeloid cell-mediated disease.

7. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 5, wherein the T cell-mediated disease is transplant rejection, autoimmune disease, allergic disease or ischemic disease.

8. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 6, wherein the myeloid cell-mediated disease is cancer or cancer metastasis.

9. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, wherein the CCR5 antagonist is a non-peptide substance.

10. **(Currently Amended)** The ~~function inhibitor of an effector cell~~ method according to claim 1, wherein the CCR5 antagonist is a compound of formula (I)



(I)

wherein R^1 represents (1) a hydrogen atom, (2) C1-18 alkyl, (3) C2-18 alkenyl, (4) C2-18 alkynyl, (5) $-COR^6$, (6) $-CONR^7R^8$, (7) $-COOR^9$, (8) $-SO_2R^{10}$, (9) $-COCOOR^{11}$, (10) $-CONR^{12}COR^{13}$, (11) Cyc1 or (12) C1-18 alkyl, C2-18 alkenyl or C2-18 alkynyl substituted with 1-5 substituent(s) selected from (a) halogen, (b) $-CONR^7R^8$, (c) $-COOR^9$, (d) $-OR^{14}$, (e) $-SR^{15}$, (f) $-NR^{16}R^{17}$, (g) $-NR^{18}COR^{19}$, (h) $-SO_2NR^{20}R^{21}$, (i) $-OCOR^{22}$, (j) $-NR^{23}SO_2R^{24}$, (k) $-NR^{25}COOR^{26}$, (l) $-NR^{27}CONR^{28}R^{29}$, (m) Cyc1, (n) keto and (o) $-N(SO_2R^{24})_2$;

R^6-R^9, R^{11}-R^{21}, R^{23}, R^{25} and R^{27}-R^{29} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc1 or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5 substituent(s) selected from (a) Cyc1, (b) halogen, (c) $-OR^{30}$, (d) $-SR^{31}$, (e) $-NR^{32}R^{33}$, (f) $-COOR^{34}$, (g) $-CONR^{35}R^{36}$, (h) $-NR^{37}COR^{38}$, (i) $-NR^{39}SO_2R^{40}$ and (j) $-N(SO_2R^{40})_2$, or

R^7 and R^8, R^{20} and R^{21}, or R^{28} and R^{29} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{195}-(C2-6 alkylene)-, wherein R^{195} is a hydrogen atom, C1-8 alkyl, phenyl, or C1-8 alkyl substituted with phenyl;

R^{10}, R^{22}, R^{24} and R^{26} each independently represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) Cyc1 or (5) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5

substituent(s) selected from (a) Cyc1, (b) halogen, (c) $-OR^{30}$, (d) $-SR^{31}$, (e) $-NR^{32}R^{33}$, (f) $-COOR^{34}$, (g) $-CONR^{35}R^{36}$, (h) $-NR^{37}COR^{38}$, (i) $-NR^{39}SO_2R^{40}$ and (j) $-N(SO_2R^{40})_2$;

R^{30}-R^{37} and R^{39} each independently represents a hydrogen atom, C1-8 alkyl, Cyc1 or C1-8 alkyl substituted with Cyc1, or

R^{35} and R^{36} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{196}-(C2-6 alkylene)-, wherein R^{196} represents a hydrogen atom, C1-8 alkyl, phenyl or C1-8 alkyl substituted with phenyl;

R^{38} and R^{40} each independently represents C1-8 alkyl, Cyc1 or C1-8 alkyl substituted with Cyc1;

Cyc1 represents a C3-15 mono-, bi- or tri-(fused or spiro)carbocyclic ring or a 3-15 membered mono-, bi- or tri-(fused or spiro)cyclic hetero ring containing 1-4 nitrogen atom(s), 1-3 oxygen atom(s) and/or 1-3 sulfur atom(s), and Cyc1 may be substituted with 1-5 of R^{51};

R^{51} represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) halogen, (5) nitro, (6) trifluoromethyl, (7) trifluoromethoxy, (8) nitrile, (9) keto, (10) Cyc2, (11) $-OR^{52}$, (12) $-SR^{53}$, (13) $-NR^{54}R^{55}$, (14) $-COOR^{56}$, (15) $-CONR^{57}R^{58}$, (16) $-NR^{59}COR^{60}$, (17) $-SO_2NR^{61}R^{62}$, (18) $-OCOR^{63}$, (19) $-NR^{64}SO_2R^{65}$, (20) $-NR^{66}COOR^{67}$, (21) $-NR^{68}CONR^{69}R^{70}$, (22) $-B(OR^{71})_2$, (23) $-SO_2R^{72}$, (24) $-N(SO_2R^{72})_2$, or (25) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5 substituent(s) selected from (a) halogen, (b) Cyc2, (c) $-OR^{52}$, (d) $-SR^{53}$, (e) $-NR^{54}R^{55}$, (f) $-COOR^{56}$, (g) $-CONR^{57}R^{58}$, (h) $-NR^{59}COR^{60}$, (i) $-SO_2NR^{61}R^{62}$, (j) $-OCOR^{63}$, (k) $-NR^{64}SO_2R^{65}$, (l) $-NR^{66}COOR^{67}$, (m) $-NR^{68}CONR^{69}R^{70}$, (n) $-B(OR^{71})_2$, (o) $-SO_2R^{72}$ and (p) $-N(SO_2R^{72})_2$;

R^{52}-R^{62}, R^{64}, R^{66} and R^{68}-R^{71} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc2 or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc2, $-OR^{73}$, $-COOR^{74}$ or $-NR^{75}R^{76}$, or

R^{57} and R^{58}, R^{61} and R^{62}, or R^{69} and R^{70} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{197}-(C2-6 alkylene)-, wherein R^{197} represents a hydrogen atom, C1-8 alkyl, phenyl or C1-8 alkyl substituted with phenyl;

R^{63}, R^{65}, R^{67} and R^{72} each independently represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) Cyc2 or (5) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc2, -OR^{73}, -$COOR^{74}$ or -$NR^{75}R^{76}$;

R^{73}-R^{76} each independently represents a hydrogen atom, C1-8 alkyl, Cyc2 or C1-8 alkyl substituted with Cyc2;

Cyc2 has the same meaning as Cyc1, and Cyc2 may be substituted with 1-5 of R^{77};

R^{77} represents (1) C1-8 alkyl, (2) halogen, (3) nitro, (4) trifluoromethyl, (5) trifluoromethoxy, (6) nitrile, (7) -OR^{78}, (8) -$NR^{79}R^{80}$, (9) -$COOR^{81}$, (10) -SR^{82}, (11) -$CONR^{83}R^{84}$, (12) C2-8 alkenyl, (13) C2-8 alkynyl, (14) keto, (15) Cyc6, (16) -$NR^{161}COR^{162}$, (17) -$SO_2NR^{163}R^{164}$, (18) -$OCOR^{165}$, (19) -$NR^{166}SO_2R^{167}$, (20) -$NR^{168}COOR^{169}$, (21) -$NR^{170}CONR^{171}R^{172}$, (22) -$SO_2R^{173}$, (23) -$N(SO_2R^{167})_2$ or (24) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5 substituent(s) selected from (a) halogen, (b) -OR^{78}, (c) -$NR^{79}R^{80}$, (d) -$COOR^{81}$, (e) -SR^{82}, (f) -$CONR^{83}R^{84}$, (g) keto, (h) Cyc6, (i) -$NR^{161}COR^{162}$, (j) -$SO_2NR^{163}R^{164}$, (k) -$OCOR^{165}$, (l) -$NR^{166}SO_2R^{167}$, (m) -$NR^{168}COOR^{169}$, (n) -$NR^{170}CONR^{171}R^{172}$, (o) -$SO_2R^{173}$, and (p) -$N(SO_2R^{167})_2$;

R^{78}-R^{84}, R^{161}-R^{164}, R^{166}, R^{168} and R^{170}-R^{172} each independently represents (a) a hydrogen atom, (b) C1-8 alkyl, (c) C2-8 alkenyl, (d) C2-8 alkynyl, (e) Cyc6, (f) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc6, -OR^{174}, -$COOR^{175}$, -$NR^{176}R^{177}$ or -$CONR^{178}R^{179}$, or

R^{83} and R^{84}, R^{163} and R^{164}, or R^{171} and R^{172} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4)

-(C2-6 alkylene)-NR^{198}-(C2-6 alkylene)-, wherein R^{198} represents a hydrogen atom, C1-8 alkyl, phenyl or C1-8 alkyl substituted with phenyl;

R^{165}, R^{167}, R^{169} and R^{173} each independently represents (a) C1-8 alkyl, (b) C2-8 alkenyl, (c) C2-8 alkynyl, (d) Cyc6 or (e) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc6, $-OR^{174}$, $-COOR^{175}$, $-NR^{176}R^{177}$ or $-CONR^{178}R^{179}$;

R^{174}-R^{177} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) Cyc6 or (4) C1-8 alkyl substituted with Cyc6, or

R^{178} and R^{179} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{199}-(C2-6 alkylene)-, wherein R^{199} represents a hydrogen atom, C1-8 alkyl, phenyl or C1-8 alkyl substituted with phenyl;

Cyc6 represents a C3-8 mono-carbocyclic ring or a 3-8 membered mono-cyclic hetero ring containing 1-4 nitrogen atom(s), 1-2 oxygen atom(s) and/or 1-2 sulfur atom(s), with the proviso that, Cyc6 may be substituted with 1-5 of R^{180};

R^{180} represents (1) C1-8 alkyl, (2) halogen, (3) nitro, (4) trifluoromethyl, (5) trifluoromethoxy, (6) nitrile, (7) $-OR^{181}$, (8) $-NR^{182}R^{183}$, (9) $-COOR^{184}$, (10) $-SR^{185}$ or (11) $-CONR^{186}R^{187}$;

R^{181}-R^{187} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) phenyl or (4) C1-8 alkyl substituted with phenyl, or

R^{182} and R^{183}, or R^{186} and R^{187} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{200}-(C2-6 alkylene)-, wherein R^{200} represents a hydrogen atom, C1-8 alkyl, phenyl, C1-8 alkyl substituted with phenyl;

R^2 represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) $-OR^{90}$, (6) Cyc3 or (7) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5

substituent(s) selected from (a) halogen, (b) -OR^{90}, (c) -SR^{91}, (d) -$NR^{92}R^{93}$, (e) -$COOR^{94}$, (f) -$CONR^{95}R^{96}$, (g) -$NR^{97}COR^{98}$, (h) -$SO_2NR^{99}R^{100}$, (i) -$OCOR^{101}$, (j) -$NR^{102}SO_2R^{103}$, (k) -$NR^{104}COOR^{105}$, (l) -$NR^{106}CONR^{107}R^{108}$, (m) Cyc3, (n) keto and (o) -$N(SO_2R^{103})_2$;

R^{90}-R^{100}, R^{102}, R^{104} and R^{106}-R^{108} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc3 or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc3, or

R^{95} and R^{96}, R^{99} and R^{100}, or R^{107} and R^{108} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{201}-(C2-6 alkylene)-, wherein R^{201} is a hydrogen atom, C1-8 alkyl, phenyl or C1-8 alkyl substituted with phenyl;

R^{101}, R^{103} and R^{105} are each independently (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl or (4) Cyc3, or C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc3;

Cyc3 has the same meaning as Cyc1, and Cyc3 may be substituted with 1-5 of R^{109};

R^{109} has the same meaning as R^{51};

R^3 and R^4 each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) -$COOR^{120}$, (6) -$CONR^{121}R^{122}$, (7) Cyc4 or (8) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5 substituent(s) selected from (a) halogen, (b) nitrile, (c) Cyc4, (d) -$COOR^{120}$, (e) -$CONR^{121}R^{122}$, (f) -OR^{123}, (g) -SR^{124}, (h) -$NR^{125}R^{126}$, (i) -$NR^{127}COR^{128}$, (j) -$SO_2NR^{129}R^{130}$, (k) -$OCOR^{131}$, (l) -$NR^{132}SO_2R^{133}$, (m) -$NR^{134}COOR^{135}$, (n) -$NR^{136}CONR^{137}R^{138}$, (o) -S-$SR^{139}$, (p) -NHC(=NH)$NHR^{140}$, (q) keto, (r) -$NR^{145}CONR^{146}COR^{147}$ and (s) -$N(SO_2R^{133})_2$;

R^{120}-R^{130}, R^{132}, R^{134}, R^{136}-R^{138}, R^{145} and R^{146} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc4 or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc4, halogen,-OR^{148}, -SR^{149}, -$COOR^{150}$ or -$NHCOR^{141}$, or

R^{121} and R^{122}, R^{129} and R^{130}, or R^{137} and R^{138} are taken together to represent (1) C2-6 alkylene, (2) -(C2-6 alkylene)-O-(C2-6 alkylene)-, (3) -(C2-6 alkylene)-S-(C2-6 alkylene)- or (4) -(C2-6 alkylene)-NR^{201}-(C2-6 alkylene)-, wherein R^{201} represents a hydrogen atom, C1-8 alkyl, phenyl, C1-8 alkyl substituted with phenyl;

R^{131}, R^{133}, R^{135}, R^{139} and R^{147} each independently represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) Cyc4 or (5) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc4, halogen, $-OR^{148}$, $-SR^{149}$, $-COOR^{150}$ or $-NHCOR^{141}$;

R^{140} represents a hydrogen atom, $-COOR^{142}$ or $-SO_2R^{143}$;

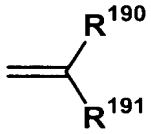
R^{141}-R^{143} each independently represents (1) C1-8 alkyl, (2) C2-8 alkenyl, (3) C2-8 alkynyl, (4) Cyc4 or (5) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc4;

R^{148}-R^{150} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) Cyc4 or (6) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with Cyc4;

Cyc4 has the same meaning as Cyc1, and Cyc4 may be substituted with 1-5 of R^{144};

R^{144} has the same meaning as R^{51}, or

R^3 and R^4 are taken together to represent



wherein R^{190} and R^{191} each independently represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) C2-8 alkenyl, (4) C2-8 alkynyl, (5) $-COOR^{120}$, (6) $-CONR^{121}R^{122}$, (7) Cyc4 or (8) C1-8 alkyl, C2-8 alkenyl or C2-8 alkynyl substituted with 1-5 substituent(s) selected from (a) halogen, (b) nitrile, (c) Cyc4, (d) $-COOR^{120}$, (e) $-CONR^{121}R^{122}$, (f) $-OR^{123}$, (g) $-SR^{124}$, (h) $-NR^{125}R^{126}$, (i) $-NR^{127}COR^{128}$, (j) $-SO_2NR^{129}R^{130}$, (k) $-OCOR^{131}$, (l) $-NR^{132}SO_2R^{133}$, (m) $-NR^{134}COOR^{135}$, (n) -

$NR^{136}CONR^{137}R^{138}$, (o) $-S-SR^{139}$, (p) $-NHC(=NH)NHR^{140}$, (q) keto, (r) $-NR^{145}CONR^{146}COR^{147}$ and (s) $-N(SO_2R^{133})_2$;

R^{120}-R^{140} and R^{145}-R^{147} have the same meanings as described above;

R^5 represents (1) a hydrogen atom, (2) C1-8 alkyl, (3) Cyc5 or (4) C1-8 alkyl substituted with Cyc5;

Cyc5 has the same meaning as Cyc1, and Cyc5 may be substituted with 1-5 of R^{150};

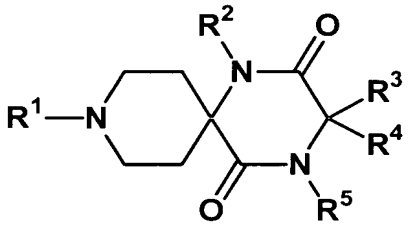
R^{150} has the same meaning as R^{51};

an N-oxide thereof, a salt thereof, or a prodrug thereof.

11. **(Original)** A medicament which comprises a function inhibitor of an effector cell comprising a CCR5 antagonist, in combination with one, two or more immunosuppressive drug(s).

12. **(Original)** The medicament according to claim 11, wherein the one, two or more immunosuppressive drug(s) are selected from the group of tacrolimus, cyclosporine, sirolimus, corticosteroid, azathioprine, mycophenolate mofetil, FTY-720 and cyclophosphamide.

13. **(Currently Amended)** ~~A method for prevention and/or treatment of a disease caused by effector cell function, which comprises administering to a mammal an effective amount of~~ The medicament according to claim 11, wherein the CCR5 antagonist is a compound of formula (I)



(I)

wherein all symbols have the same meanings as those defined in claim 10,

an N-oxide thereof, a salt thereof, or a prodrug thereof.

Claim 14. **(Cancelled)**